

Wenguang Liu

List of Publications by Year in descending order

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177
papers

14,573
citations

13827

67
h-index

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115
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178
all docs

178
docs citations

178
times ranked

15447
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly luminescent carbon nanodots by microwave-assisted pyrolysis. <i>Chemical Communications</i> , 2012, 48, 7955.	2.2	830
2	A Mechanically Strong, Highly Stable, Thermoplastic, and Self-Healable Supramolecular Polymer Hydrogel. <i>Advanced Materials</i> , 2015, 27, 3566-3571.	11.1	684
3	Nano-carrier for gene delivery and bioimaging based on carbon dots with PEI-passivation enhanced fluorescence. <i>Biomaterials</i> , 2012, 33, 3604-3613.	5.7	664
4	Bioinspired fabrication of high strength hydrogels from non-covalent interactions. <i>Progress in Polymer Science</i> , 2017, 71, 1-25.	11.8	379
5	Water-Triggered Hyperbranched Polymer Universal Adhesives: From Strong Underwater Adhesion to Rapid Sealing Hemostasis. <i>Advanced Materials</i> , 2019, 31, e1905761.	11.1	352
6	Paintable and Rapidly Bondable Conductive Hydrogels as Therapeutic Cardiac Patches. <i>Advanced Materials</i> , 2018, 30, e1704235.	11.1	329
7	One-step synthesis of surface passivated carbon nanodots by microwave assisted pyrolysis for enhanced multicolor photoluminescence and bioimaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 13163.	6.7	300
8	Dipole-Dipole and H-Bonding Interactions Significantly Enhance the Multifaceted Mechanical Properties of Thermoresponsive Shape Memory Hydrogels. <i>Advanced Functional Materials</i> , 2015, 25, 471-480.	7.8	296
9	Recent advances in wet adhesives: Adhesion mechanism, design principle and applications. <i>Progress in Polymer Science</i> , 2021, 116, 101388.	11.8	251
10	Direct 3D Printing of High Strength Biohybrid Gradient Hydrogel Scaffolds for Efficient Repair of Osteochondral Defect. <i>Advanced Functional Materials</i> , 2018, 28, 1706644.	7.8	243
11	Osteochondral Regeneration with 3D-Printed Biodegradable High-Strength Supramolecular Polymer Reinforced-Gelatin Hydrogel Scaffolds. <i>Advanced Science</i> , 2019, 6, 1900867.	5.6	239
12	An investigation on the physicochemical properties of chitosan/DNA polyelectrolyte complexes. <i>Biomaterials</i> , 2005, 26, 2705-2711.	5.7	233
13	Water-soluble and phosphorus-containing carbon dots with strong green fluorescence for cell labeling. <i>Journal of Materials Chemistry B</i> , 2014, 2, 46-48.	2.9	224
14	A hybrid injectable hydrogel from hyperbranched PEG macromer as a stem cell delivery and retention platform for diabetic wound healing. <i>Acta Biomaterialia</i> , 2018, 75, 63-74.	4.1	213
15	Recombinant human collagen for tissue engineered corneal substitutes. <i>Biomaterials</i> , 2008, 29, 1147-1158.	5.7	202
16	3D-Printed High Strength Bioactive Supramolecular Polymer/Clay Nanocomposite Hydrogel Scaffold for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1109-1118.	2.6	187
17	A Janus Hydrogel Wet Adhesive for Internal Tissue Repair and Anti-Postoperative Adhesion. <i>Advanced Functional Materials</i> , 2020, 30, 2005689.	7.8	182
18	Collagen-phosphorylcholine interpenetrating network hydrogels as corneal substitutes. <i>Biomaterials</i> , 2009, 30, 1551-1559.	5.7	171

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19	An Injectable Supramolecular Polymer Nanocomposite Hydrogel for Prevention of Breast Cancer Recurrence with Theranostic and Mammoplastic Functions. <i>Advanced Functional Materials</i> , 2018, 28, 1801000.	7.8	171
20	Mg/N double doping strategy to fabricate extremely high luminescent carbon dots for bioimaging. <i>RSC Advances</i> , 2014, 4, 3201-3205.	1.7	163
21	Mechanically and biologically skin-like elastomers for bio-integrated electronics. <i>Nature Communications</i> , 2020, 11, 1107.	5.8	162
22	Degradable Disulfide Core-Cross-Linked Micelles as a Drug Delivery System Prepared from Vinyl Functionalized Nucleosides via the RAFT Process. <i>Biomacromolecules</i> , 2008, 9, 3321-3331.	2.6	156
23	A γ - γ conjugation-containing soft and conductive injectable polymer hydrogel highly efficiently rebuilds cardiac function after myocardial infarction. <i>Biomaterials</i> , 2017, 122, 63-71.	5.7	147
24	An injectable conductive hydrogel encapsulating plasmid DNA-eNOs and ADSCs for treating myocardial infarction. <i>Biomaterials</i> , 2018, 160, 69-81.	5.7	147
25	A rapid temperature-responsive sol-gel reversible poly(N-isopropylacrylamide)-g-methylcellulose copolymer hydrogel. <i>Biomaterials</i> , 2004, 25, 3005-3012.	5.7	146
26	3D-Bioprinted Osteoblast-Laden Nanocomposite Hydrogel Constructs with Induced Microenvironments Promote Cell Viability, Differentiation, and Osteogenesis both In Vitro and In Vivo. <i>Advanced Science</i> , 2018, 5, 1700550.	5.6	142
27	Multiple H-Bonding Chain Extender-Based Ultrastiff Thermoplastic Polyurethanes with Autonomous Self-Healability, Solvent-Free Adhesiveness, and AIE Fluorescence. <i>Advanced Functional Materials</i> , 2021, 31, 2006944.	7.8	138
28	Coadministration of an Adhesive Conductive Hydrogel Patch and an Injectable Hydrogel to Treat Myocardial Infarction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2039-2048.	4.0	136
29	A robust, highly stretchable supramolecular polymer conductive hydrogel with self-healability and thermo-processability. <i>Scientific Reports</i> , 2017, 7, 41566.	1.6	132
30	ZnO QD@PMAA-co-PDMAEMA nonviral vector for plasmid DNA delivery and bioimaging. <i>Biomaterials</i> , 2010, 31, 3087-3094.	5.7	130
31	NIR-Activated Polydopamine-Coated Carrier-Free Nanobomb for In Situ On-Demand Drug Release. <i>Advanced Science</i> , 2018, 5, 1800155.	5.6	130
32	Enhanced gene transfection and serum stability of polyplexes by PDMAEMA-polysulfobetaine diblock copolymers. <i>Biomaterials</i> , 2011, 32, 628-638.	5.7	127
33	An Autolytic High Strength Instant Adhesive Hydrogel for Emergency Self-Rescue. <i>Advanced Functional Materials</i> , 2018, 28, 1804925.	7.8	125
34	A Mineralized High Strength and Tough Hydrogel for Skull Bone Regeneration. <i>Advanced Functional Materials</i> , 2017, 27, 1604327.	7.8	124
35	A facile and versatile approach to biocompatible fluorescent polymers from polymerizable carbon nanodots. <i>Chemical Communications</i> , 2012, 48, 10431.	2.2	123
36	Injectable hyperbranched poly(β -amino ester) hydrogels with on-demand degradation profiles to match wound healing processes. <i>Chemical Science</i> , 2018, 9, 2179-2187.	3.7	123

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37	High Strength Hydrogels with Integrated Functions of H-bonding and Thermoresponsive Surface-Mediated Reverse Transfection and Cell Detachment. <i>Advanced Materials</i> , 2010, 22, 2652-2656.	11.1	122
38	Polycation-Polyzwitterion Copolymer Grafted Luminescent Carbon Dots As a Multifunctional Platform for Serum-Resistant Gene Delivery and Bioimaging. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20487-20497.	4.0	114
39	Redox-cleavable star cationic PDMAEMA by arm-first approach of ATRP as a nonviral vector for gene delivery. <i>Biomaterials</i> , 2010, 31, 559-569.	5.7	112
40	Zinc Ion Uniquely Induced Triple Shape Memory Effect of Dipole-Dipole Reinforced Ultra-High Strength Hydrogels. <i>Macromolecular Rapid Communications</i> , 2012, 33, 225-231.	2.0	111
41	NIR-responsive cancer cytomembrane-cloaked carrier-free nanosystems for highly efficient and self-targeted tumor drug delivery. <i>Biomaterials</i> , 2018, 159, 25-36.	5.7	111
42	Fabrication of a shape memory hydrogel based on imidazole-zinc ion coordination for potential cell-encapsulating tubular scaffold application. <i>Soft Matter</i> , 2013, 9, 132-137.	1.2	108
43	Radiopaque Highly Stiff and Tough Shape Memory Hydrogel Microcoils for Permanent Embolization of Arteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705962.	7.8	107
44	Construction of an ultrahigh strength hydrogel with excellent fatigue resistance based on strong dipole-dipole interaction. <i>Soft Matter</i> , 2011, 7, 2825.	1.2	106
45	Wound dressing change facilitated by spraying zinc ions. <i>Materials Horizons</i> , 2020, 7, 605-614.	6.4	106
46	An Ultrasoft Self-Fused Supramolecular Polymer Hydrogel for Completely Preventing Postoperative Tissue Adhesion. <i>Advanced Materials</i> , 2021, 33, e2008395.	11.1	104
47	Alginate microsphere-collagen composite hydrogel for ocular drug delivery and implantation. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3365-3371.	1.7	103
48	Sea Cucumber-Inspired Autolytic Hydrogels Exhibiting Tunable High Mechanical Performances, Repairability, and Reusability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8956-8966.	4.0	100
49	Conductive Hydrogen Sulfide-Releasing Hydrogel Encapsulating ADSCs for Myocardial Infarction Treatment. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14619-14629.	4.0	93
50	Thermosensitive N-isopropylacrylamide-N-propylacrylamide-vinyl pyrrolidone terpolymers: Synthesis, characterization and preliminary application as embolic agents. <i>Biomaterials</i> , 2005, 26, 7002-7011.	5.7	90
51	High Strength Multifunctional Multiwalled Hydrogel Tubes: Ion-Triggered Shape Memory, Antibacterial, and Anti-inflammatory Efficacies. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16865-16872.	4.0	90
52	Intermolecular hydrogen bonding strategy to fabricate mechanically strong hydrogels with high elasticity and fatigue resistance. <i>Soft Matter</i> , 2013, 9, 6331.	1.2	89
53	An anti-inflammatory cell-free collagen/resveratrol scaffold for repairing osteochondral defects in rabbits. <i>Acta Biomaterialia</i> , 2014, 10, 4983-4995.	4.1	89
54	Cationic polymer brush grafted-nanodiamond via atom transfer radical polymerization for enhanced gene delivery and bioimaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 7755.	6.7	88

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55	3D printing of biomimetic vasculature for tissue regeneration. <i>Materials Horizons</i> , 2019, 6, 1197-1206.	6.4	88
56	Catechol functionalized hyperbranched polymers as biomedical materials. <i>Progress in Polymer Science</i> , 2018, 78, 47-55.	11.8	85
57	Biomedical polymers: synthesis, properties, and applications. <i>Science China Chemistry</i> , 2022, 65, 1010-1075.	4.2	85
58	Co-delivery of doxorubicin and tumor-suppressing p53 gene using a POSS-based star-shaped polymer for cancer therapy. <i>Biomaterials</i> , 2015, 55, 12-23.	5.7	83
59	A Thermoresponsive Chitosan-NIPAAm/Vinyl Laurate Copolymer Vector for Gene Transfection. <i>Bioconjugate Chemistry</i> , 2005, 16, 972-980.	1.8	80
60	Rebuilding Postinfarcted Cardiac Functions by Injecting TIIA@PDA Nanoparticle-Cross-linked ROS-Sensitive Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2880-2890.	4.0	79
61	Biological applications of carbon dots. <i>Science China Chemistry</i> , 2014, 57, 522-539.	4.2	77
62	Biomaterials-enabled cornea regeneration in patients at high risk for rejection of donor tissue transplantation. <i>Npj Regenerative Medicine</i> , 2018, 3, 2.	2.5	76
63	A Reversibly Responsive Fluorochromic Hydrogel Based on Lanthanide-Mannose Complex. <i>Advanced Science</i> , 2019, 6, 1802112.	5.6	76
64	Double Hydrogen-Bonding pH-Sensitive Hydrogels Retaining High-Strengths Over a Wide pH Range. <i>Macromolecular Rapid Communications</i> , 2013, 34, 63-68.	2.0	74
65	Poly(<i>N</i> -acryloyl glycinamide): a fascinating polymer that exhibits a range of properties from UCST to high-strength hydrogels. <i>Chemical Communications</i> , 2018, 54, 10540-10553.	2.2	73
66	Coaxial Scale-Up Printing of Diameter-Tunable Biohybrid Hydrogel Microtubes with High Strength, Perfusability, and Endothelialization. <i>Advanced Functional Materials</i> , 2020, 30, 2001485.	7.8	73
67	The biocompatibility of fatty acid modified dextran-arginine bioconjugate gene delivery vector. <i>Biomaterials</i> , 2012, 33, 604-613.	5.7	72
68	Fabrication of strong hydrogen-bonding induced coacervate adhesive hydrogels with antibacterial and hemostatic activities. <i>Biomaterials Science</i> , 2020, 8, 1455-1463.	2.6	71
69	Polymerization of <i>N</i> -acryloylsemicarbazide: a facile and versatile strategy to tailor-make highly stiff and tough hydrogels. <i>Materials Horizons</i> , 2020, 7, 1160-1170.	6.4	71
70	An inhalable β_2 -adrenoceptor ligand-directed guanidylated chitosan carrier for targeted delivery of siRNA to lung. <i>Journal of Controlled Release</i> , 2012, 162, 28-36.	4.8	70
71	An unparalleled H-bonding and ion-bonding crosslinked waterborne polyurethane with super toughness and unprecedented fracture energy. <i>Materials Horizons</i> , 2021, 8, 2742-2749.	6.4	69
72	Toward an understanding of thermoresponsive transition behavior of hydrophobically modified <i>N</i> -isopropylacrylamide copolymer solution. <i>Polymer</i> , 2005, 46, 5268-5277.	1.8	66

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73	Effect of Block Order of ABA and BAB Type NIPAAm/HEMA Triblock Copolymers on Thermoresponsive Behavior of Solutions. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1773-1781.	1.1	65
74	Temperature-tuned DNA condensation and gene transfection by PEI-g-(PMEOMA-b-PHEMA) copolymer-based nonviral vectors. <i>Biomaterials</i> , 2010, 31, 144-155.	5.7	65
75	Regeneration of functional nerves within full thickness collagen phosphorylcholine corneal substitute implants in guinea pigs. <i>Biomaterials</i> , 2010, 31, 2770-2778.	5.7	65
76	Enhanced gene delivery by chitosan-disulfide-conjugated LMW-PEI for facilitating osteogenic differentiation. <i>Acta Biomaterialia</i> , 2013, 9, 6694-6703.	4.1	65
77	A highly tough and stiff supramolecular polymer double network hydrogel. <i>Polymer</i> , 2018, 153, 193-200.	1.8	65
78	Antifouling Super Water Absorbent Supramolecular Polymer Hydrogel as an Artificial Vitreous Body. <i>Advanced Science</i> , 2018, 5, 1800711.	5.6	64
79	A High Strength Self-Healable Antibacterial and Anti-Inflammatory Supramolecular Polymer Hydrogel. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600695.	2.0	62
80	Hydrogen bonded and ionically crosslinked high strength hydrogels exhibiting Ca ²⁺ -triggered shape memory properties and volume shrinkage for cell detachment. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6347-6354.	2.9	61
81	A Fe ³⁺ -crosslinked pyrogallol-tethered gelatin adhesive hydrogel with antibacterial activity for wound healing. <i>Biomaterials Science</i> , 2020, 8, 3164-3172.	2.6	60
82	A Self-Thickening and Self-Strengthening Strategy for 3D Printing High-Strength and Antiswelling Supramolecular Polymer Hydrogels as Meniscus Substitutes. <i>Advanced Functional Materials</i> , 2021, 31, 2100462.	7.8	60
83	High-Strength Photoresponsive Hydrogels Enable Surface-Mediated Gene Delivery and Light-Induced Reversible Cell Adhesion/Detachment. <i>Langmuir</i> , 2014, 30, 11823-11832.	1.6	58
84	Nano-silver in situ hybridized collagen scaffolds for regeneration of infected full-thickness burn skin. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4231-4241.	2.9	58
85	A study of thermoresponsive poly(N-isopropylacrylamide)/polyarginine bioconjugate non-viral transgene vectors. <i>Biomaterials</i> , 2006, 27, 4984-4992.	5.7	55
86	Hydrogen-Bonding Toughened Hydrogels and Emerging CO ₂ -Responsive Shape Memory Effect. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1585-1591.	2.0	55
87	Synthetic neoglycopolymer-recombinant human collagen hybrids as biomimetic crosslinking agents in corneal tissue engineering. <i>Biomaterials</i> , 2009, 30, 5403-5408.	5.7	54
88	A Short Review on Self-Healing Thermoplastic Polyurethanes. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100002.	1.1	54
89	Robust MeOMA/vinyl-4,6-diamino-1,3,5-triazine copolymer hydrogels-mediated reverse gene transfection and thermo-induced cell detachment. <i>Biomaterials</i> , 2011, 32, 1943-1949.	5.7	52
90	Bacteria activated-macrophage membrane-coated tough nanocomposite hydrogel with targeted photothermal antibacterial ability for infected wound healing. <i>Chemical Engineering Journal</i> , 2021, 420, 127638.	6.6	52

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91	Zinc ion-triggered two-way macro-/microscopic shape changing and memory effects in high strength hydrogels with pre-programmed unilateral patterned surfaces. <i>Soft Matter</i> , 2012, 8, 6846.	1.2	51
92	Enhanced Therapeutic siRNA to Tumor Cells by a pH-Sensitive Agmatine- α -Chitosan Bioconjugate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8114-8124.	4.0	51
93	High-strength hydrogel-based bioinks. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1736-1746.	3.2	44
94	Controlled Heterogeneous Stem Cell Differentiation on a Shape Memory Hydrogel Surface. <i>Scientific Reports</i> , 2014, 4, 5815.	1.6	43
95	Directed neural stem cell differentiation on polyaniline-coated high strength hydrogels. <i>Materials Today Chemistry</i> , 2016, 1-2, 15-22.	1.7	42
96	Local gene delivery via endovascular stents coated with dodecylated chitosan–plasmid DNA nanoparticles. <i>International Journal of Nanomedicine</i> , 2010, 5, 1095.	3.3	41
97	An injectable and antifouling self-fused supramolecular hydrogel for preventing postoperative and recurrent adhesions. <i>Chemical Engineering Journal</i> , 2021, 404, 127096.	6.6	41
98	Functional hydrogels for the treatment of myocardial infarction. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	41
99	A thermoresponsive supramolecular copolymer hydrogel for the embolization of kidney arteries. <i>Biomaterials Science</i> , 2016, 4, 1673-1681.	2.6	40
100	One zwitterionic injectable hydrogel with ion conductivity enables efficient restoration of cardiac function after myocardial infarction. <i>Chemical Engineering Journal</i> , 2021, 418, 129352.	6.6	40
101	Tea eggs-inspired high-strength natural polymer hydrogels. <i>Bioactive Materials</i> , 2021, 6, 2820-2828.	8.6	39
102	Stiffness Self-Tuned Shape Memory Hydrogels for Embolization of Aneurysms. <i>Advanced Functional Materials</i> , 2020, 30, 1910197.	7.8	38
103	Guanidinylation: A simple way to fabricate cell penetrating peptide analogue- α -modified chitosan vector for enhanced gene delivery. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3569-3578.	1.3	37
104	Injectable Hyaluronic Acid Hydrogel Loaded with Functionalized Human Mesenchymal Stem Cell Aggregates for Repairing Infarcted Myocardium. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6926-6937.	2.6	37
105	Zwitterion-Initiated Spontaneously Polymerized Super Adhesive Showing Real-Time Deployable and Long-Term High-Strength Adhesion against Various Harsh Environments. <i>Advanced Functional Materials</i> , 2022, 32, 2109144.	7.8	37
106	Surface passivated carbon nanodots prepared by microwave assisted pyrolysis: effect of carboxyl group in precursors on fluorescence properties. <i>RSC Advances</i> , 2014, 4, 18818-18826.	1.7	36
107	Methyl matters: An autonomic rapid self-healing supramolecular poly(N-methacryloyl glycinamide) hydrogel. <i>Polymer</i> , 2017, 126, 1-8.	1.8	36
108	Super-Soft DNA/Dopamine-Grafted-Dextran Hydrogel as Dynamic Wire for Electric Circuits Switched by a Microbial Metabolism Process. <i>Advanced Science</i> , 2020, 7, 2000684.	5.6	35

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109	N-Isopropylacrylamide/2-Hydroxyethyl Methacrylate Star Diblock Copolymers: Synthesis and Thermoresponsive Behavior. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 2329-2335.	1.1	34
110	Polymer Pressure-sensitive Adhesive with A Temperature-insensitive Loss Factor Operating Under Water and Oil. <i>Advanced Functional Materials</i> , 2021, 31, 2104296.	7.8	34
111	High-strength hydrogel as a reusable adsorbent of copper ions. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 258-264.	6.5	33
112	Harnessing isomerization-mediated manipulation of nonspecific cell/matrix interactions to reversibly trigger and suspend stem cell differentiation. <i>Chemical Science</i> , 2016, 7, 333-338.	3.7	32
113	Self-aggregation behavior of alkylated chitosan and its effect on the release of a hydrophobic drug. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003, 14, 851-859.	1.9	29
114	Redox-triggered Self-rolling Robust Hydrogel Tubes for Cell Encapsulation. <i>Macromolecular Rapid Communications</i> , 2014, 35, 344-349.	2.0	29
115	Gene-modified cell detachment on photoresponsive hydrogels strengthened through hydrogen bonding. <i>Acta Biomaterialia</i> , 2014, 10, 2529-2538.	4.1	29
116	Polyzwitterion Manipulates Remineralization and Antibiofilm Functions against Dental Demineralization. <i>ACS Nano</i> , 2022, 16, 3119-3134.	7.3	29
117	3D printed biomimetic epithelium/stroma bilayer hydrogel implant for corneal regeneration. <i>Bioactive Materials</i> , 2022, 17, 234-247.	8.6	28
118	3D Printed High-strength Supramolecular Polymer Hydrogel-cushioned Radially and Circumferentially Oriented Meniscus Substitute. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	28
119	Nanoclay Incorporated Polyethylene-Glycol Nanocomposite Hydrogels for Stimulating <i>In Vitro</i> and <i>In Vivo</i> Osteogenesis. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 662-674.	0.5	26
120	A hyperbranched polymer elastomer-based pressure sensitive adhesive. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1257-1269.	5.2	25
121	Repair of volumetric bone defects with a high strength BMP-loaded-mineralized hydrogel tubular scaffold. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5588-5596.	2.9	23
122	ZnO quantum dots-embedded collagen/polyanion composite hydrogels with integrated functions of degradation tracking/inhibition and gene delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 512-519.	6.7	22
123	A conductive and biodegradable hydrogel for minimally delivering adipose-derived stem cells. <i>Science China Technological Sciences</i> , 2019, 62, 1747-1754.	2.0	22
124	A high strength pH responsive supramolecular copolymer hydrogel. <i>Science China Technological Sciences</i> , 2017, 60, 78-83.	2.0	21
125	Guanidinylated allylamine-N-isopropylacrylamide copolymer nonviral transgene vectors. <i>International Journal of Pharmaceutics</i> , 2007, 331, 116-122.	2.6	20
126	A robust poly(N-acryloyl-2-glycine)-based sponge for rapid hemostasis. <i>Biomaterials Science</i> , 2020, 8, 3760-3771.	2.6	20

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127	PDMAEMA-b-polysulfobetaine brushes-modified μ -polylysine as a serum-resistant vector for highly efficient gene delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 23576.	6.7	19
128	A pH-Responsive Biodegradable High-Strength Hydrogel as Potential Gastric Resident Filler. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800290.	1.7	19
129	Carrier-free nanodrug-based virus-surface-mimicking nanosystems for efficient drug/gene co-delivery. <i>Biomaterials Science</i> , 2018, 6, 3300-3308.	2.6	18
130	A high strength, anti-fouling, self-healable, and thermoplastic supramolecular polymer hydrogel with low fibrotic response. <i>Science China Technological Sciences</i> , 2019, 62, 569-577.	2.0	18
131	An in situ-forming polyzwitterion hydrogel: Towards vitreous substitute application. <i>Bioactive Materials</i> , 2021, 6, 3085-3096.	8.6	18
132	Combining magnetic field/temperature dual stimuli to significantly enhance gene transfection of nonviral vectors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 43-51.	2.9	17
133	A systemic gene vector constructed by zwitterionic polymer modified low molecular weight PEI. <i>Reactive and Functional Polymers</i> , 2013, 73, 993-1000.	2.0	17
134	Photoactive Self-Shaping Hydrogels as Noncontact 3D Macro/Microscopic Photoprinting Platforms. <i>Macromolecular Rapid Communications</i> , 2015, 36, 2129-2136.	2.0	17
135	Fenton reaction-initiated formation of biocompatible injectable hydrogels for cell encapsulation. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3932.	2.9	16
136	Hyperbranched PEG-based multi-NHS polymer and bioconjugation with BSA. <i>Polymer Chemistry</i> , 2017, 8, 1283-1287.	1.9	16
137	A high strength semi-degradable polysaccharide-based hybrid hydrogel for promoting cell adhesion and proliferation. <i>Journal of Materials Science</i> , 2018, 53, 6302-6312.	1.7	16
138	Improved transfection efficiency of CS/DNA complex by co-transfected chitosanase gene. <i>International Journal of Pharmaceutics</i> , 2008, 352, 302-308.	2.6	15
139	Octaarginine-modified chitosan as a nonviral gene delivery vector: properties and in vitro transfection efficiency. <i>Journal of Nanoparticle Research</i> , 2011, 13, 693-702.	0.8	15
140	UV light-triggered unpacking of DNA to enhance gene transfection of azobenzene-containing polycations. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3868.	2.9	15
141	Cyclodextrin-cross-linked diaminotriazine-based hydrogen bonding strengthened hydrogels for drug and reverse gene delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1869-1882.	1.9	14
142	Ultrastable core-shell structured nanoparticles directly made from zwitterionic polymers. <i>Chemical Communications</i> , 2014, 50, 15030-15033.	2.2	14
143	A nucleoside responsive diaminotriazine-based hydrogen bonding strengthened hydrogel. <i>Materials Letters</i> , 2015, 142, 71-74.	1.3	14
144	A Mechanically Robust, Stiff, and Tough Hyperbranched Supramolecular Polymer Hydrogel. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800819.	2.0	14

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145	A smart indwelling needle with on-demand switchable anticoagulant and hemostatic activities. <i>Materials Horizons</i> , 2020, 7, 1091-1100.	6.4	14
146	Modulation of osteoblast function using poly(D,L-lactic acid) surfaces modified with alkylation derivative of chitosan. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002, 13, 53-66.	1.9	13
147	Preparation and characterization of biocompatible poly(L-lactic acid)/gelatin blend membrane. <i>Journal of Applied Polymer Science</i> , 2006, 101, 269-276.	1.3	13
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